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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761,736	01/21/2004	Jim Auber	NOR-1086A	3661
37172	7590	12/19/2008		
WOOD, HERRON & EVANS, LLP (NORDSON)				
2700 CAREW TOWER				
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CINCINNATI, OH 45202				
EXAMINER				
CARTAGENA, MELVIN A				
ART UNIT		PAPER NUMBER		
3754				
NOTIFICATION DATE		DELIVERY MODE		
12/19/2008		ELECTRONIC		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

krooney@whepatent.com  
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### Office Action Summary

**Application No.**

10/761,736

**Applicant(s)**

AUBER ET AL.

**Examiner**

MELVIN A. CARTAGENA

**Art Unit**

3754

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 02 September 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-16 and 33-42 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-16 and 33-42 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/S5108)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-6, 8-13, 15, 16, 37-40 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,089,413 to Riney et al. in view of US 4,200,207 to Akers et al.

Riney shows a device for dispensing hot melt adhesive onto a substrate that performs the steps of pumping liquid through a dispensing path 48 in a manifold to a dispensing module 12, intermittently cycles a dispensing valve 54 in the dispensing module between an open condition, see Fig.3, and an closed condition, see Fig. 2, returning liquid from the module through a recirculation path 66, preventing back flow by closing the recirculation flow path with a valve 94 and valve seat 80, pumping liquid from a supply channel 44 and returning to a recirculation channel 68, during operation of the pump the pressure of the recirculation path is less than that pressure of the dispensing path.

Riney shows all claimed features as discussed above except for a check valve positioned in the recirculation outlet of each corresponding dispensing modules. Akers shows a hot melt dispenser with a check valve 9 positioned in the recirculation outlet 78c. It would have been obvious to a person with ordinary skill in the art at the time the invention was made to modify the device of Riney by installing a check valve in the recirculation passageway for recycling part or all of the adhesive if the system pressure exceeds the a preset working pressure as taught by Akers.

3. Claims 7, 14, 33-35 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,089,413 to Riney et al. as modify by US 4,200,207 to Akers et al. and further in view of US 5,523,682 to Leon.

The Riney-Akers combination shows all claimed features as discussed above except for a sensor for determining the position of the check valve. Leon shows a method of detecting the position of a check valve by using an electromagnetic sensor and sending a signal from the sensor to a controller. It would have been obvious to a person with ordinary skill in the art at the time the invention was made to modify the device of the Riney-Akers combination to include an electromagnetic sensor for determining the position of the check valve to verify operation of the valve without the use of special internal attachments or sealing means or any disassembly of the elements as taught by Leon.

4. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,089,413 to Riney et al. as modify by US 4,200,207 to Akers et al. and US 5,523,682 to Leon as applied to claim 33 above, and further in view of US 4,543,649 to Head et al.

The Riney-Akers-Leon combination shows all claimed features as discussed above but is silent about the sensor being an acoustic sensor. Head shows an ultrasonic sensor T used in a system for detecting the position of a valve. It would have been obvious to a person with ordinary skill in the art at the time the invention was made to modify the device of the Riney-Akers-Leon combination by using an ultrasonic sensor to determine the position of the valve since ultrasonic energy travels through fluids and can be used to accurately determine the position of valve element as taught by Head.

***Response to Arguments***

5. Applicant's arguments filed September 02, 2008 have been fully considered but they are not persuasive. In response to applicants arguments that the device of Akers fails to teach a check valve that prevents backflow from a recirculation path to a dispensing module, see column 4, lines 36-41. The reference of Akers is use to show that check valves are used to maintained fluid flow in a single direction and prevent backflows from the recirculation path into the dispensing module, as the module cycles between open and close, due to changes in pressure within the system.

***Conclusion***

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELVIN A. CARTAGENA whose telephone number is (571)272-4924. The examiner can normally be reached on T-F (7:30AM to 6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin P. Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. A. C./  
Examiner, Art Unit 3754

/Kevin P. Shaver/  
Supervisory Patent Examiner, Art Unit 3754